



Wireless Lighting Control

# Advanced Remote

CONTROL

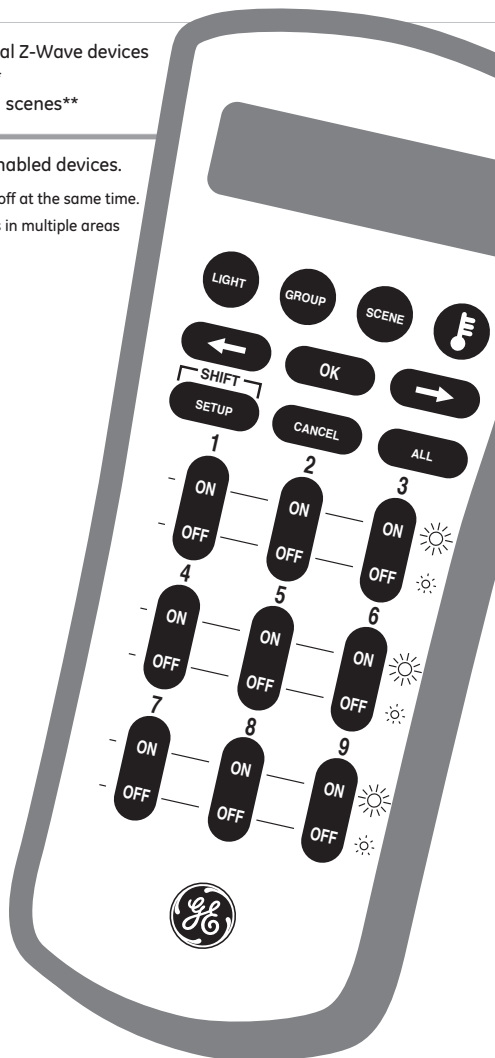
18

- Individual Z-Wave devices
- Groups\*
- Lighting scenes\*\*

Control up to 232 Z-Wave enabled devices.

\*A group turns multiple lights on/off at the same time.

\*\*A scene dims or brightens lights in multiple areas to suit your mood.



Z-Wave® Certified  
Wireless Lighting Control

## INTRODUCTION

Thank you for purchasing the GE 45601 Advanced Remote. This remote allows you to control up to 18 individual Z-Wave devices with one easy-to-use, compact unit. You can also set up and control up to 18 groups of lights as well as 18 scenes for task or mood lighting. Groups can include up to 232 Z-Wave devices and each scene can include up to 32 Z-Wave devices. Lights can be included in multiple groups. Scenes can include

**LCD with easy to use menu**

### Menu Selection Buttons:

Use arrow buttons to scroll between menu items

Press OK to select the displayed menu item

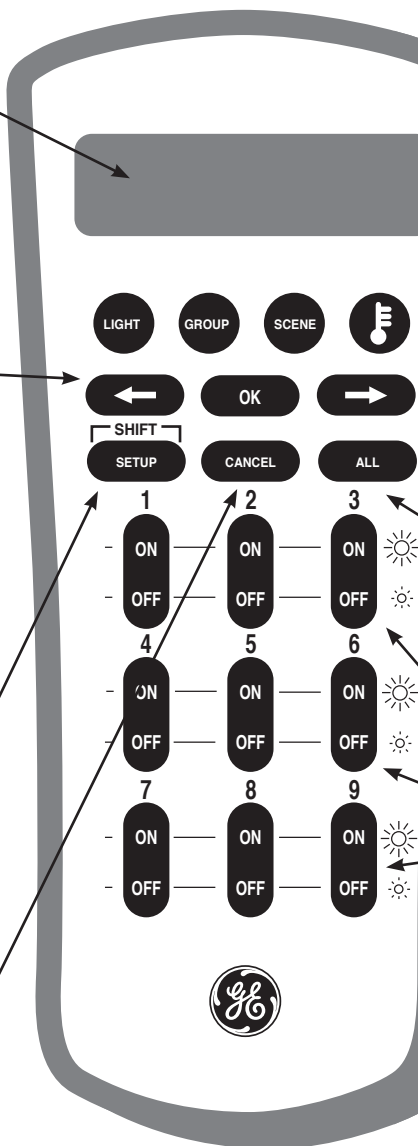
### Setup / Shift Button

Press and hold to enter setup mode. You can then add lights to, or delete them from your control network. You can also create or modify groups and scenes, etc.

Press and release to SHIFT number buttons from 1 - 9 to 10 -18.

### Cancel Button

Press and release to cancel the current programming operation



lights from different groups. Your Z-Wave home control network can include up to 232 Z-Wave enabled devices.

**Additional features include:**

- Easy to use LCD menu system
- Event programming which allows you to set timed events such as turning on all of your lights at a certain time every day.
- Control of a Z-Wave enabled thermostat for your HVAC system.

**Mode Buttons:**

**LIGHT** – Use to program and/or control individual lights

**GROUP** - Use to program and/or turn multiple lights ON or OFF with one button

**SCENE** – Use to program and/or control multiple lights at preset brightness levels. The same light may be included in multiple scenes.

**Thermostat** – Use to check and adjust system and temperature settings on a Z-Wave enabled thermostat

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**All Button**

Use to turn ON or OFF all Z-Wave lighting at the same time. Press ALL and then any number button

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**Number Buttons**

Use to control up to 18 individual lights, 18 groups and 18 scenes. Press & release to turn ON or OFF. Press & hold to adjust brightness.

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Press the button for numbers 1 – 9; Press SHIFT, then the button for numbers 10-18

If this remote is used as the primary controller, you must use it to create your control network. You can use multiple remote controls with your Z-Wave lighting control network, however, only one remote will act as the primary controller. The primary controller must be used to add or delete devices (lights / nodes) from your network. All other controllers are considered secondary and can be used to create groups and/or scenes and control your lighting however secondary controllers cannot add or delete devices from your network.

**NOTE:** This product can be operated in one Z-Wave network with Z-Wave certified devices from other manufacturers and/or other applications. The different listening nodes within the network can act as repeaters regardless of vendor.

For best results, please read and perform all the remaining instructions before using the remote. Keep this guide for future reference.

## Z-WAVE TERMINOLOGY

**Primary Controller:** This is the main device used to set up and control your Z-Wave network. There can only be one primary controller and it must be used to add or delete devices. A primary controller can be a portable device like a hand-held remote, a static controller (permanently installed & never moved), a Z-Wave enabled PC or a Z-Wave enabled Ethernet router/bridge.

**Secondary Controller:** The Z-Wave network supports multiple controllers so the residents can use additional Z-Wave remotes throughout the home. If the secondary controller is the same brand and model as the primary, it will have all of the same capabilities as the primary with one exception; the secondary controller can not be used to add or delete devices.

**Home Control Network:** Your controllers and every Z-Wave device you have added with the primary controller are linked together into a wireless network. Each device in your network has a unique address assigned to it and cannot be activated by your neighbor's Z-Wave controller.

**Light/Node/Device:** Node is the technical term used to describe a Z-Wave device in your home control network. Please note that the terms "Node", "Device" and "Light" all refer to an individual Z-Wave enabled device and are interchangeable within the context of these instructions.

**Group:** Multiple Z-Wave devices can be turned ON or OFF with a single command when they are placed into a Group. One example would be grouping your porch light, exterior garage lights and patio lights together so that they could all be turned ON if you hear a strange sound in the middle of the night.

**Scene:** A scene lets you establish preset brightness levels for multiple Z-Wave controlled lights and then control them with one command. This is ideal for mood or task lighting. Scene 1 could be the family room lights set to dim for watching TV. Scene 2 could have the same lights set to a different brightness level for other activities like reading or entertaining.

**Event:** An event is something you want to happen at a specific time and day. This could be everyday, a specific day of the week, Monday through Friday, Saturday & Sunday only, or a one time occurrence. Events can be set up to control an individual device, a group or a scene.

## INSTALLING BATTERIES

Three "AAA" Alkaline batteries (not included) are required.

### Battery Use and Safety

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries or different types of batteries.
- If you do not plan to use the remote for an extended period, remove the batteries. They can leak chemicals that can destroy electronic parts.
- Dispose of old batteries promptly and properly. Do not burn or bury them.
- Replace fully discharged batteries immediately

### To Install Batteries:

1. Open the battery compartment cover (located on the back of the remote).
2. Note the + and - polarity symbols inside the battery compartment.
3. Insert the batteries, making sure their polarity matches the symbols in the compartment.
4. Replace the cover.

## WARNING

### RISK OF FIRE

### RISK OF ELECTRICAL SHOCK

### RISK OF BURNS

#### Controlling Appliances:

Exercise extreme caution when using Z-Wave devices to control appliances. Operation of the Z-Wave device may be in a different room than the controlled appliance, also an unintentional activation may occur if the wrong button on the remote is pressed. Z-Wave devices may automatically be powered on due to timed event programming. Depending upon the appliance, these unattended or unintentional operations could possibly result in a hazardous condition. For these reasons, we recommend the following:

1. Assign Z-Wave controlled appliances to device numbers 10 – 18 on the GE remote. The likelihood of unintentionally turning on the appliance will be reduced significantly because the "Shift" button will need to be pressed before pressing device numbers 10-18.
2. Z-Wave devices controlling appliances should be removed from "All" control setting. Instructions on how to do this are included in the manual for your GE remote.
3. Do Not include Z-Wave devices in Groups or Scenes if they control appliances.
4. Do Not use Z-Wave devices to control electric heaters or any other appliances which may present a hazardous condition due to unattended or unintentional or automatic power on control.
5. Double check programs for accuracy before using them.

WIRELESS RANGE

This device complies with the Z-Wave standard of open-air, line of sight transmission distances of 100 feet. Actual performance in a home depends on the number of walls between the remote controller and the destination device, the type of construction and the number of Z-Wave enabled devices installed in the control network. Every Z-Wave enabled device acts as a signal repeater and multiple devices result in more possible transmission routes which helps eliminate "RF dead-spots".

Things to consider regarding RF range:

- Each wall or obstacle (i.e.: refrigerator, big screen TV, etc.) between the remote and the destination device will reduce the maximum range of 100 feet by approximately 25-30%.
- Brick, tile or concrete walls block more of the RF signal than walls made of wooden studs and plasterboard (drywall).
- Wall mounted Z-Wave devices installed in metal junction boxes will suffer a significant loss of range (approximately 20%) since the metal box blocks a large part of the RF signal.

Effects of Home Construction on Wireless Range Between Z-Wave Enabled Devices

**Note:** The distances shown in the table below are typical examples. Actual performance in your home will vary.

From the Remote (or repeating Z-Wave module) to destination device:

		Type of Construction			
		Wood Frame w/Drywall		Brick, Tile or Concrete	
		Plastic J-Boxes*	Metal J-Boxes	Plastic J-Boxes*	Metal J-Boxes
Number of Walls or Obstacles	0**	100'	80'	100'	80'
	1	70'	56'	60'	48'
	2	49'	39'	36'	29'
	3	34'	27'	21'	17'

\* For Plug-in Modules or In-Wall Devices Installed in Plastic Junction Boxes

\*\* Line of Sight / no obstructions

**Please Note:** Z-Wave home control networks are designed to work properly alongside 802.11 wireless computer networks, Bluetooth and other 2.4GHz or 5.8GHz devices. Some baby cams, wireless video devices and older cordless phones using the 900MHz frequency range may cause interference and limit Z-Wave functionality. Many 900MHz products have a switch to select channel "A" or "B". You may find that one of these channels will cause less interference than the other.

## NOTES ON NETWORK MANAGEMENT

1. Add a node, group or scene can also be referred to as include a node, group or scene. Remove a node, group or scene can also be referred to as Exclude a node, group or scene.
2. If the screen displays FAILURE during the setup or programming process, you have pressed an invalid key or the desired action has not been successfully completed. Please make sure the remote is within two feet of the device and try again.

## ADDING A DEVICE (NODE/LIGHT) TO THE NETWORK

In order to control the lights, they must be Z-Wave enabled and you must first add them to your home network. There are two ways to do this.

1. Add lights to your remote so that they can be controlled individually using the number keys (maximum of 18). Adding a device to your remote also adds it to your network. If the device number you are trying to add is already associated with another device, the previous information is lost.
2. Add devices to your home network without assigning them to a specific number key. These devices can only be controlled through the **GROUP**, **SCENE** or **ALL** commands.

**To add a device to your home network WITHOUT assigning it to a specific number key:**

1. Press and hold **SETUP** until the screen shows **LGHT SETUP.P**
2. Press and Release **OK** and the screen will display **ADD**.
3. Press **OK** once; the screen will now display **TO NETWORK**.
4. Press **OK** and the screen will display **SETUP WAITING**.
5. Press the button on the device so that it communicates with the remote.
6. The screen will display **SUCCESS** to indicate that the Node/Light has been successfully added.
7. The device can now be added to Groups and/or Scenes.

**To add a device to your home network and assign it to a specific number key:**

1. Press and hold **SETUP** until screen displays **LGHT SETUP**.
2. Press **OK** and the screen will display **ADD**.
3. Press **OK** and the screen will display **TO NETWORK**.
4. Use either Arrow key to scroll until the display reads **TO A KEY** and then press **OK**.

5. Press a digit (1-9) for the device location you wish to add. Press **SETUP (SHIFT)** and the digit (1-9) if you are adding devices 10 through 18.
6. Press **OK** and the screen will display **SETUP WAITING**.
7. Press the button on the device so that it communicates with the remote.
8. When the screen displays **SUCCESS**, you have successfully added the device to the number key and your network.

### CONTROLLING INDIVIDUAL LIGHTS (DEVICES / NODES)

You can control a light to turn on or off, or change its brightness level. The operation of a specific device varies by product. Refer to the manual for that device to learn its specific operation.

1. Press and release the **LIGHT** key to put the remote into "Individual Light Control" mode. The remote will stay in this mode until the **GROUP**, **SCENE** or **ALL** mode is activated.
2. Select the light you want to control. (Press and release **SHIFT** to control lights 10 through 18.)

#### Turning a Light On or Off:

- To turn a light on, press and release the **ON** key for less than one second. The screen will display the selected **LIGHT** and **ON**.
- To turn a light off, press and release the **OFF** key for less than one second. The screen will display the selected **LIGHT** and **OFF**.

#### Setting a Light's Brightness Level:

- To make a light brighter, press and hold the **ON** key for more than one second. The screen will display selected **LIGHT** and **BRIGHT**. The light will continue to grow brighter until the key is released.
- To make a light dim, press and hold the **OFF** key for more than one second. The screen will display selected **LIGHT** and **DIM**. The light will continue to grow dimmer until the key is released.

### REMOVING AN INDIVIDUAL DEVICE (LIGHT / NODE) FROM YOUR REMOTE

This only removes individual number key control. The device is still part of your home control network and can be controlled through the **GROUP**, **SCENE** and **ALL** commands.

1. Press and hold **SETUP** until screen displays **LGHT SETUP**.
2. Press **OK** followed by either arrow key to scroll until the display reads **REMOVE**.
3. Press **OK** and the screen will display **SEL DIGIT**.
4. Press a digit (1-9) for the device location you wish to remove. Press **SHIFT** and the digit (1-9) if you are removing devices 10 through 18.
5. Press **OK** and the screen will display **SUCCESS**.



## DELETING A DEVICE (LIGHT / NODE) FROM YOUR NETWORK

This completely removes the device from your home control network and resets the device to its factory default settings.

1. Press and hold **SETUP** until screen displays **LGHT SETUP**
2. Press **OK** followed by pressing the cursor right key 2 times the screen will display **DELETE**.
3. Press **OK**.
4. Press the button on the device so that it communicates with the remote.
5. When the screen displays **SUCCESS**, you have successfully deleted the node/light from your network.

## GROUPS

You can create a collection of devices (lights /nodes) that you can control as a group. You can set up a maximum of 18 groups. A group can contain up to 232 devices.

### To create or add a device to a group:

1. Press and hold **SETUP** until screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **GRP SETUP**.
3. Press the **OK** key and the screen will display **ADD**.
4. Press **OK** and the screen will display **SEL DIGIT**.
5. Press a digit (1-9) for the group you wish to add the device to. Press **SHIFT** and the digit (1-9) if you are adding a device to groups 10 through 18.
6. Press the **OK** key and the screen will display **SETUP WAITING**.
7. Press the button on the device so that it communicates with the remote.
8. When the screen displays **SUCCESS**, you have successfully added the device to your group.

### To control a Group:

1. Press **GROUP** once to put the remote into "GROUP Control" mode. The screen will display **GROUP**. The remote will stay in this mode until the Light, Scene or All mode is activated.
  2. Press the digit key for the group you wish to control (1-9). Press **SHIFT** and the digit (1-9) if you are controlling groups 10 through 18. The screen will display the selected Group.
- To turn a **GROUP** on, press and release the **ON** key for less than one second. The screen will display the selected **GROUP** and **ON**.
  - To turn a **GROUP OFF**, press and release the **OFF** key for less than one second. The screen will display the selected **GROUP** and **OFF**.

### Removing a Device (Light / Node) from a Group:

This only removes the device from a specific group. The device is still part of your home control network and the group still exists (if there were more than one device in it to start).

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **GRP SETUP**.
3. Press the **OK** key followed by the cursor right key once and the screen will display **REMOVE**.

4. Press the **OK** key and the screen will display **SEL DIGIT**.
5. Press a digit (1-9) for the group you wish to remove the device from. Press **SHIFT** and the digit (1-9) if you are removing a device from groups 10 through 18.
6. Press the **OK** key and the screen will display **SETUP WAITING**.
7. Press the button on the device you wish to remove.
8. When the screen displays **SUCCESS**, you have successfully removed the device.

### Deleting a Group:

This only deletes the specific group. All of the devices are still part of your home control network.

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **GRP SETUP**.
3. Press the **OK** key, followed by the cursor right key 2 times and the screen will display **DELETE**.
4. The screen will display **SEL DIGIT**.
5. Press a digit (1-9) for the group you wish to delete. Press Shift and the digit (1-9) if you are deleting groups 10 through 18.
6. Press the **OK** and the screen will display **SUCCESS**.

### SCENES

A scene is a single device or group of devices that can be preset to turn to a previously specified setting (for example, brightness level). Scenes are ideal for task or mood lighting. You can set up a maximum of 18 scenes, containing up to 32 devices per scene. Scenes can include lights from different groups.

### Adding a Light (Device / Node) to a Scene:

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **SCN SETUP**.
3. Press **OK** and the screen will display **ADD**.
4. Press **OK** and the screen will display **SEL DIGIT**.
5. Press a digit (1-9) for the scene you wish to add the device to. Press **SHIFT** and the digit (1-9) if you are adding devices to scenes 10 through 18.
6. Press **OK** and the screen will display **SETUP WAITING**.
7. Press the button on the device that you are adding and, adjust the brightness level on the device within 30 seconds (refer to the manual for the device).
8. When the screen displays **SUCCESS**, you have successfully added the device to a scene.

### To control a scene:

1. Press **SCENE** once to put the remote in **SCENE** Mode. The remote will stay in this mode until the Light, Group or All mode is activated.
2. Press the digit key for the scene you wish to control (1-9). Press **SHIFT** and the digit (1-9) if you are controlling scenes 10 through 18. The screen will display scene and the digit selected.

## Removing a Light (Device / Node) from a Scene:

This only removes the device from a specific scene. The device is still part of your home control network and the scene still exists (if there were more than one device in it to start).

1. Press and hold **SETUP** until screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **SCN SETUP**.
3. Press **OK** followed by either Arrow key until the display reads **REMOVE**.
4. Press **OK** and the screen will display **SEL DIGIT**.
5. Press a digit (1-9) for the scene you wish to remove the device from. Press **SHIFT** and the digit (1-9) if you are removing devices from scenes 10 through 18.
6. Press the **OK** key and the screen will display **SETUP WAITING**.
7. Press the button on the device that you wish to remove.
8. When the screen displays **SUCCESS**, you have successfully removed the device from the scene.

## Deleting a Scene:

This only deletes the specific scene. All of the devices are still part of your home control network.

1. Press and hold **SETUP** until screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **SCN SETUP**.
3. Press **OK** followed by either Arrow key until the display reads **DELETE**.
4. Press **OK** and the screen will display **SEL DIGIT**.
5. Press a digit (1-9) for the scene you wish to delete. Press **SHIFT** and the digit (1-9) if you are deleting scenes 10 through 18.
6. The screen will display the selected Scene, press the **OK** key and the screen will display **SUCCESS**.

## LABELS

Individual **LIGHTS**, **GROUPS** or **SCENES** can all be labeled to help identify their function or location in your home. The process is the same for all three.

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**. Scroll to **GROUP** or **SCENE** if changing those labels.
2. Press **OK** and the screen will read **ADD**.
3. Use either Arrow key to scroll until the display reads **LABEL**.
4. Press **OK** and screen will display **SEL DIGIT**.
5. Press a digit (1-9) for the **LIGHT**, **GROUP** or **SCENE** you wish to rename. Press **SHIFT** and the digit (1-9) if you are re-naming 10 through 18.
6. The screen will display the selected **LIGHT**, **GROUP** or **SCENE**.
7. Use the #1 On/Off key to scroll through the alphabet/numbers until you reach the appropriate letter or number.
8. Use the right Arrow key to move to the next letter and repeat step 7.
9. Continue this process until your new label is complete.
10. Press the **OK** key and the screen will display **SUCCESS**.

## ALL-ON and ALL-OFF Control

The factory default setting for GE Z-Wave lighting control devices is to be included in All-On and All-Off control. Other brands of Z-Wave enabled lighting control devices may have to be manually added to All control.

**To turn all devices on or off, perform the following steps:**

1. Press **ALL** once. The screen will display **ALL**.
2. Press either **ON** or **OFF**. Any **ON** or **OFF** button can be pressed. (The screen will display **ALL ON** or **ALL OFF** depending on what key was pressed).

**Adding Devices (Lights / Nodes) to All Control:**

1. Press and hold **SETUP** the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **ALL SETUP**.
3. Press **OK** and screen will display **EX ON/OFF**.
4. Use either Arrow key to scroll until the display reads **INC ON/OFF**.
5. Press **OK** and the screen will display **SETUP WAITING**.
6. Press the button on the device that you wish to add to All Control.
7. The screen will display **SUCCESS**.

**Deleting Devices (Lights / Nodes) from All Control:**

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **ALL SETUP**.
3. Press **OK** and screen will display **EX ON/OFF**.
4. Press **OK** and the screen will display **SETUP WAITING**.
5. Press the button on the device that you wish to remove from All Control.
6. The screen will display **SUCCESS**.

## **TIME AND DATE SETUP**

**Setting the Time:**

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **DATE/TIME**.
3. Press **OK** and the screen will display **TIME**.
4. Press **OK** and the screen will display **TIME 12hr**.
5. Pressing **ON** or **OFF** with the 1 key will adjust the hour.
6. Pressing **ON** or **OFF** with the 2 key will adjust the minutes.
7. Pressing **ON** or **OFF** with the 3 key will toggle between AM and PM.
8. Once you have setup the correct Time, press the **OK** key and screen will read **SUCCESS**.

**Setting the Date:**

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **DATE/TIME**.
3. Press **OK** and the screen will display **TIME**.
4. Use either Arrow key to scroll until the display reads **DATE**.
5. Press **OK** and the screen will display default date of 01/01/2007.
6. Pressing **ON** or **OFF** with the 1 key will adjust the Month.
7. Pressing **ON** or **OFF** with the 2 key will adjust the Day.
8. Pressing **ON** or **OFF** with the 3 key will toggle between Year.
9. Once you have setup the correct Date, press the **OK** key and screen will read **SUCCESS**.

**NOTE:** You will need to reprogram the Date and Time when the batteries are replaced.

## **EVENTS**

The 45601 Advanced Remote allows you to program up to 15 automated

events such as turning on or off your lights at a preset time and day. You must set the time and date before programming an Event.

### **Adding an EVENT:**

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **EVENTS**.
3. Press **OK** and the Screen will display **ADD**.
4. Press **OK** and the Screen will display **EVERY DAY**. Use Either Arrow key to change this option to **MON-FRI, SAT-SUN, ONE TIME** or a specific Day of the **WEEK**.
5. Once you have chosen the Event profile, press the **OK** key.
6. The Screen will now display **SEL DIGIT**.
7. Press any digit and the screen will display the **EVENT** number.
8. Press and release **OK** and the screen will display **ENABLED**.
9. **PRESS OK** and the Screen will display **EVENT TYPE**.
10. Use either arrow key to scroll between the **LIGHT, SCENE** or **GROUP** options (Pressing **DIGITS 1-9** will adjust the **LIGHT** number accordingly).
11. After you select the **EVENT** type, press the **OK** key and the screen will display **ON TIME**.
12. Pressing **ON** or **OFF** with the 1 key will adjust the hour.
13. Pressing **ON** or **OFF** with the 2 key will adjust the minutes.
14. Pressing **ON** or **OFF** with the 3 key will toggle between **AM** and **PM**.
15. Press the **OK** key once you have programmed the **ON TIME** and the screen will display **OFF TIME**.
16. Pressing **ON** or **OFF** with the 1 key will adjust the hour.
17. Pressing **ON** or **OFF** with the 2 key will adjust the minutes.
18. Pressing **ON** or **OFF** with the 3 key will toggle between **AM** and **PM**.
19. Once you have programmed the **OFF** time press **OK** and the screen will display **SUCCESS**.

### **Random EVENTS:**

The 45601 Advanced Remote allows you to program automated events such as turning on or off your lights at a predetermined time and day. By choosing the **RANDOM** option, the **EVENT** will start at +/-15 minutes of the Scheduled Time.

To activate this function, after step 8 above, use either arrow key to scroll until the display reads **RANDOM**. Press **OK** and the Screen will display **EVENT TYPE**. Continue the programming as shown in step 10 above.

### **Disabling an EVENT:**

Once an event has been programmed, it can be disabled by following steps 1-8 above and then scrolling to **DISABLED** and pressing OK.

### **Deleting an EVENT:**

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **EVENT**.
3. Press **OK** and the Screen will display **ADD**.
4. Use either arrow key to scroll until the screen displays **DELETE**.
5. Press **OK** and the Screen will display **SEL DIGIT**.
6. Press the **DIGIT** for the **EVENT** you want to **DELETE**.
7. Press **OK** and the screen will display **SUCCESS**.

## THERMOSTATS

### Adding a Thermostat:

The 45601 Advanced Remote allows you to program and control a Z-WAVE enabled Thermostat.

1. Press and hold **SETUP** until screen displays **LGHT SETUP**.
2. Use either arrow key to scroll until the screen displays **THERMOSTAT**.
3. Press **OK** and the screen will display **ADD**.
4. Press **OK** and the screen will display **SETUP WAITING**.
5. Press the button on the thermostat's Z-Wave interface.
6. When the screen displays **SUCCESS**, you have successfully added the **THERMOSTAT** to your remote control.

### Controlling a Thermostat:

The features and functions that can be controlled vary by manufacturer and you will need to review the user manual that was provided to determine capabilities of your **THERMOSTAT**. If supported by the thermostat, the 45601 Advanced Remote allows you to check room temperature, adjust HVAC system modes (Heat, Cool, Auto, Fan, etc.) and adjust temperature settings (setpoints). Please note that your HVAC system may have to be set to "**HEAT**" or "**COOL**" mode in order to remotely check and/or adjust the room temperature.

### Deleting a Thermostat:

1. Press and hold **SETUP** until screen displays **LGHT SETUP**.
2. Use either arrow key to scroll until the screen displays **THERMOSTAT**.
3. Press **OK** and the screen will display **ADD**.
4. Use either arrow key to scroll until the screen displays **DELETE**.
5. Press **OK** and the screen will display **SETUP WAITING**.
6. Press the button on the thermostat's Z-Wave interface.
7. When the screen displays **SUCCESS**, you have successfully deleted the thermostat.

## ADVANCED CONFIGURATION

Some Z-Wave devices provide advanced capabilities available only through the use of a remote control like the 45601 Advanced Remote. One example is the 45606 in-wall dimmer which allows the end user to create 3 different dim rates depending upon how the dimmer is activated (manually, via a normal Z-Wave "Dim" command or via an All-On or All-Off Z-Wave command). Each of the three can be set anywhere between 10 milliseconds and 4.2 minutes for the time it takes to go from full intensity to minimum intensity.

Please refer to the instructions of your Z-Wave device for available options and specific instructions on changing its advanced configuration.

### To Change Advanced Configuration Settings:

1. Press and hold **SETUP** the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **ADV CONFIG**.
3. Press **OK** and screen will display **PARAM 0**.
4. Use either Arrow key to scroll until the display reads the proper parameter number (1 - 255) as indicated in the Z-Wave device's instructions.
5. Press **OK** and the screen will read **NUM BYTES**.

6. Use either Arrow key to scroll until the display reads the proper number of bytes (1, 2 or 4) as indicated in the Z-Wave device's instructions.
7. Press **OK** and the screen will display read **CONFIG VAZL**.
8. Use either Arrow key to scroll until the display reads the proper value (0 - 255) as indicated in the Z-Wave device's instructions.
9. Press **OK**.
10. Press the button on the device.
11. The screen will display **SUCCESS**.

## SENDING INFORMATION TO A SECONDARY REMOTE

You can add a secondary remote to your network, and copy your primary remote's network and device information to it.

### To send information to a secondary remote:

1. Place the two remotes near each other.
2. Press and hold **SETUP** on the primary 45601 Advanced remote until the display reads **LGHT SETUP**.
3. Use either Arrow key to scroll until the display reads **TRANSFER**.
4. Press **OK** and the screen will display **PRIMARY**.
5. Use either arrow key to scroll until the display reads **SECONDARY**.
6. Press **OK** and the Screen will display **ALL**.
  - a. To send network and device information to the new remote, proceed to Step 7.
  - b. To send only network information to the new remote, use either arrow key to scroll to **NTWK ONLY** and proceed to Step 7.
7. Refer to the user manual for the secondary remote for programming information. Put the target (secondary) remote into programming mode so that it receives information from the primary remote. See the following section on "Copying Information to this Remote" if the target remote is a 45601 remote.
8. Press the **OK** key and the screen will display **SENDING**.
9. When screen displays **SUCCESS** you have successfully transferred the information.

### Copying Information to this Remote

1. Place the two remotes near each other.
2. Refer to the user manual for the primary remote for programming information. Put the primary remote into programming mode so that it sends information to the secondary remote. If the primary remote is a 45601 Advanced Remote, refer to the section above on Sending Network Information.
3. On the target 45601, use either Arrow key to scroll until the display reads **TRANSFER**.
4. Press **OK** and the screen will display **PRIMARY**.
5. Use either arrow key to scroll until the display reads **RECEIVE**.
6. Press **OK** and the Screen will display **RECEIVING**.
7. When screen displays **SUCCESS** you have successfully transferred the information.

## PRIMARY CONTROLLER SHIFT (TRANSFER)

You can transfer all of the 45601's information to another remote, so it becomes the new primary controller. The 45601 will retain all of its programming; however, it will now be a secondary controller.

Transferring Primary Controller Information:

1. Place the two remotes near each other.
2. On the 45601, press and hold **SETUP** until the screen displays **LGHT SETUP**.
3. Use either Arrow key to scroll until the display reads **TRANSFER**.
4. Press **OK** and the display will read **PRIMARY**.
5. Press **OK** and the display will read **ALL**.
  - a. To send network and device information to the new remote, proceed to Step 6.
  - b. To send only network information to the new remote, use either arrow key to scroll to **NTWK ONLY** and proceed to Step 6.
6. Put the target (new primary) remote into programming mode so that it receives information from the 45601.
7. On the 45601, press the **OK** key and the display will read **SENDING**.
8. When the screen displays **SUCCESS**, you have successfully transmitted the information to the new primary controller.

## RECOVERING NETWORK INFORMATION

The Recovery function, also known as rediscovery, is used to rebuild the routing table within the controller. This table identifies which Z-Wave devices can communicate with other Z-Wave devices on the network and helps ensure that commands are transmitted and repeated through the most efficient route to your destination device.

To have your remote recover network information:

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **NETWORK**.
3. Press **OK** and the screen will display **RESET**.
4. Use either Arrow key to scroll until the display reads **RECOVERY**.
5. Press **OK** and the screen will display **SEL NODE**.
6. Press the **ALL** Key and the screen will display **SETUP WAITING**.
7. When the screen displays **SUCCESS**. You have successfully recovered network information.

## UPDATE NETWORK INFORMATION

The Update function is used to request updated network information from an **SUC** (Static Update Controller). If you do not have an **SUC** in your network, trying to perform this action will result in a Failure.

To have your remote receive a network update:

1. Press and hold **SETUP** until the screen displays **LGHT SETUP**.
2. Use either Arrow key to scroll until the display reads **NETWORK**.
3. Press **OK** and the screen will display **RESET**.
4. Use either Arrow key to scroll until the display reads **UPDATE**.
5. Press **OK** and the remote will request an update from your **SUC**.



## **Interoperability with Z-Wave® Devices**

A Z-Wave® network can integrate devices of various classes, and these devices can be made by different manufacturers. Although every Z-Wave certified product is designed to work with all other Z-Wave certified products, your controller must include the appropriate device classifications in order to control non-lighting Z-wave devices. As an example, the 45600 basic remote is designed only for controlling Z-Wave devices using the lighting control classification. The 45601 deluxe remote with LCD readout can control other Z-Wave certified devices like thermostats as well as lighting.

## **FCC NOTICE**

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off or on, the user should:

- Relocate or reorient the TV or radio antenna
- Increase the separation between the device and the receiver.

Any changes or modifications to the equipment without JASCO's express consent will void the user's right to operate this equipment.

**FCC ID: MG345601**

## **Compliance with IC Rules and Regulations**

IC: 6924A-45601

Jasco Products Company

Model: 45601

## **Object is subject to the following two conditions.**

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

## **WARRANTY**

JASCO Products warrants this product to be free from manufacturing defects for a period of two years from the original date of consumer purchase. This warranty is limited to the repair or replacement of this product only and does not extend to consequential or incidental damage to other products that may be used with this product. This warranty is in lieu of all other warranties, expressed or implied. Some states do not allow limitations on how long an implied warranty lasts or permit the exclusion or limitation of incidental or consequential damage, so the above limitations may not apply to you. This warranty gives you specific rights, and you may also have other rights which vary from state to state. Please contact Customer Service at 800-654-8483 (option 4) between 7:30AM – 5:00PM CST or via our website ([www.jascopeproducts.com](http://www.jascopeproducts.com)) if the unit should prove defective within the warranty period,

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Made in China

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